

# **COMPONENT, APPARATUS, AND METHOD FOR ANALYZING MOLECULES**

## **Abstract**

Components, apparatus, and method for detecting emission signals from target molecules include a substrate having a plurality of pixel locations on a surface, each location including at least one target molecule; a reflecting plate disposed opposite a side of the substrate having the pixel location; and a lens array disposed between the substrate and the reflecting plate, including the first lens array on the substrate side, a medium layer, and the second lens array on the reflecting plate side. Each lens of the second lens array has its focus on each lens of the first lens array, and the first lens array and the second lens array focus into an image of each of the at least one target molecule on the reflecting plate.

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